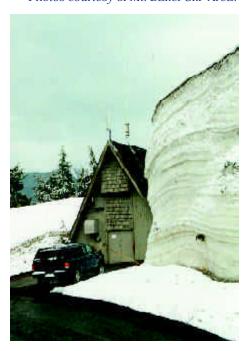
Heavy Snow

Heavy snow can immobilize a region and paralyze a city, stranding commuters, closing airports, stopping the flow of supplies, and disrupting emergency and medical services. Accumulations of snow can cause roofs to collapse and knock down trees and power lines. Homes and farms may be isolated for days and unprotected livestock may be lost. In the mountains, heavy snow can lead to avalanches. The cost of snow removal, repairing damages, and the loss of business can have severe economic impacts on cities and towns.



Before and after photo at Mt. Baker, WA, Ski Summit. Early June snow depth in 1999 measured 228 inches. The world record seasonal snowfall of 1,141 inches was recorded at Mt. Baker that year. Photos courtesy of Mt. Baker Ski Area.



BLIZZARD: Winds of 35 mph or more with snow and

blowing snow reducing visibility to less than

1/4 mile for at least 3 hours.

BLOWING SNOW: Wind-driven snow that reduces visibility.

Blowing snow may be falling snow and/or snow on the ground picked up by the wind.

SNOW SOUALLS: Brief, intense snow showers accompanied

by strong, gusty winds. Accumulation may

be significant.

SNOW SHOWERS: Snow falling at varying intensities for brief periods

of time. Some accumulation is possible.

SNOW FLURRIES: Light snow falling for short durations with little

or no accumulation.

Injuries Due To Ice and Snow

About 70% result from vehicle accidents

About 25% occur in people caught out in a storm

Most happen to males over 40 years old

An avalanche is a mass of tumbling snow. More than 80 percent of midwinter avalanches are triggered by a rapid accumulation of snow, and 90 percent of those occur within 24 hours of snowfall. An avalanche may reach a mass of a million tons and travel at speeds up to 200 mph.



Cold

Wind Chill Chart

								Tem	pera	ture	("F)							
Cale	40	35	30	25	20	15	10	5	0	-5	-10	-15	-20	-25	-30	-35	40	4
5	30	31	25	19	13	7	9.	•5	-11	-16	-22	-28	-34	-40	-46	-52	-57	-6
10	34	27	21	15	9	3	-4	-10	-16	-22	-28	-35	-41	-47	-53	-59	-66	-7.
15	32	25	19	13	6	0	-7	-13	-19	-26	-32	-39	-45	-51	-58	-64	-71	-7
20	30	24	17	111	4	-2	-9	-15	-22	-29	-35	-42	-48	-55	-61	-68	-74	-8
€ 25	29	23	16	9	3	4	-11	-17	-24	-31	-37	-44	-51	-58	-64	-71	-78	-8-
E 30	28	22	15	8	1	-5	-12	-19	-26	-33	-39	-46	-53	-60	-67	-73	-80	-81
(4dm) puiM	28	21	14	7	0	-7	-14	-21	-27	-34	-41	-48	-55	-62	-69	-76	-82	-81
¥ 40	27	20	13	- 6	-1	-8	-15	-22	-29	-36	-43	-50	-57	-64	-71	-78	-84	-9
45	26	19	12	5	-2	-9	-16	-23	-30	-37	144	-51	-58	-65	-72	-79	-86	-9
50	26	19	12	4	-3	-10	-17	-24	+31	-38	-45	-52	-60	-67	-74	-81	-88	-91
55	25	18	11	4	-3	-11	-18	-25	-32	-39	-46	-54	-61	-68	-75	-82	-89	-9
60	25	17	10	3	-4	-11	-19	-26	-33	-40	-48	-55	-62	-69	-76	-84	-91	-91
	167	Frostbite Times					36 minutes			10 minutes 5 n				ilnutes				
		W	ind (Chill		= 35. eru, T-									(V°-		etive T	t/VI/
																	M	ΩA

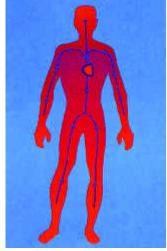
Exposure to cold can cause frostbite or hypothermia and become life-threatening. Infants and elderly people are most susceptible. What constitutes extreme cold varies in different parts of the country. In the South, near freezing temperatures are considered extreme cold. Freezing temperatures can cause severe damage to citrus fruit crops and other vegetation. Pipes may freeze and burst in homes that are poorly insulated or without heat. In the North. extreme cold means temperatures well below zero.

Wind Chill is not the actual temperature but rather how wind and cold feel on exposed skin. As the wind increases, heat is carried away from the body at an accelerated rate, driving down the body temperature. Animals are also affected by wind chill; however, cars, plants and other objects are not.

Injuries Related to Cold

- 50% happen to people over 60 years old
- More than 75% happen to males
- About 20% occur in the home

Hypothermia occurs when the extremities are excessively cold (blue)



Improperly warming the body will drive cold blood from the extremities to the heart, leading to heart failure

Frostbite is damage to body tissue caused by extreme cold. A wind chill of -20° Fahrenheit (F) will cause frostbite in just 30 minutes. Frostbite causes a loss of feeling and a white or pale appearance in extremities, such as fingers, toes, ear lobes or the tip of the nose. If symptoms are detected, get medical help immediately! If you must wait for help, slowly rewarm affected areas. However, if the person is also showing signs of hypothermia, warm the body core before the extremities.

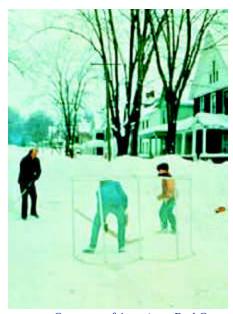
Hypothermia is a condition brought on when the body temperature drops to less than 95°F. It can kill. For those who survive, there are likely to be lasting kidney, liver and pancreas problems. Warning signs include uncontrollable shivering, memory loss, disorientation, incoherence, slurred speech, drowsiness and apparent exhaustion. Take the person's temperature. If below 95°F, seek medical care immediately!

If Medical Care is Not Available,

warm the person slowly, starting with the body core. Warming the arms and legs first drives cold blood toward the heart and can lead to heart failure. If necessary, use your body heat to help. Get the person into dry clothing and wrap in a warm blanket covering the head and neck. Do not give the person alcohol, drugs, coffee or any hot beverage or food. Warm broth is the first food to offer.



When CAUGHT in a Winter Storm



Courtesy of American Red Cross



Courtesy of American Red Cross



NOAA

Outside

Find shelter:

- Try to stay dry.
- · Cover all exposed body parts.

No shelter:

- Build a lean-to, windbreak or snow cave for protection from the wind.
- Build a fire for heat and to attract attention.
- Place rocks around the fire to absorb and reflect heat.

Melt snow for drinking water:

 Eating snow will lower your body temperature.

In a Vehicle

Stay in vehicle:

- You will become quickly disoriented in wind-driven snow and cold.
- Run the motor about 10 minutes each hour for heat.
- Open the window a little for fresh air to avoid carbon monoxide poisoning.
- Make sure the exhaust pipe is not blocked.

Be visible to rescuers:

- Turn on the dome light at night when running the engine.
- Tie a colored cloth, preferably red, to your antenna or door.
- After snow stops falling, raise the hood to indicate you need help.

Exercise:

 From time to time, move arms, legs, fingers and toes vigorously to keep blood circulating and to keep warm.

Inside

Stay inside:

 When using alternate heat from a fireplace, wood stove, space heater, etc., use fire safeguards and properly ventilate.

No heat:

- Close off unneeded rooms.
- Stuff towels or rags in cracks under doors.
- · Cover windows at night.
- Eat and drink. Food provides the body with energy for producing its own heat. Keep the body replenished with fluids to prevent dehydration.
- Wear layers of loose-fitting, lightweight, warm clothing.
 Remove layers to avoid overheating, perspiration and subsequent chill.

AVOID OVEREXERTION, such as shoveling heavy snow, pushing a car or walking in deep snow. The strain from the cold and the hard labor may cause a heart attack. Sweating could lead to a chill and hypothermia. Take Red Cross Cardiopulminary Rescue (CPR) and Automated External Defibrillator (AED) training so you can respond quickly to an emergency.

